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(54) Title: OLEFIN POLYMERIZATION WITH PYRIDINE MOIETY-CONTAINING SINGLE-SITE CATALYSTS

(57) Abstract: An olefin polymerization process is disclosed. The polymerization is performed in the presence of a clay, an activator, and a transition metal complex that has at least one pyridine moiety-containing ligand. The presence of clay increases the catalyst activity. The process is suitable for making ultra-high molecular weight polyethylenes (UHMWPE). The UHMWPE produced has increased bulk density.

